CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.05/CSR-04/329d/CEMENT/2017-18 Date: 25.04.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of Work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Cement
Sample Received on	:	24.04.2017
Period of Testing	:	24.04.2017 to 25.04.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

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Job No.: CTCE/BBMP/KRIDL/W.No.05/CSR-04/329d/SAND-Gradation/2017-18 25.04.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of Work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	24.04.2017
Date of Testing	:	25.04.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.80	90-100	90-100	90-100	95-100
2.36	77.80	60-95	75-100	85-100	95-100
1.18	56.30	30-70	55-90	75-100	90-100
600 Micron	27.80	15-34	35-59	60-79	80-100
300 Micron	15.20	5-20	8-30	12-40	15-50
150 Micron	5.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.05/CSR-04/329d/AGG/GR/2017-18 25.04.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of Work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	24.04.2017
Date of Testing	:	25.04.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.28	95-100	85-100
20	36.28	30-70	0-20
10	15.28	10-35	0-5
4.75	3.64	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.05/CSR-04/329d/AGG/GR/2017-18 25.04.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of Work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	24.04.2017
Date of Testing	:	25.04.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.22	95-100	85-100
10	31.22	25-55	0-20
4.75	5.32	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/KRIDL/W.No.05/CSR-04/329d/CC Solid Block/2017-18 27.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of Work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	24.04.2017
Date of Testing	:	27.04.2017

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	36.33	405.2	5.07	Minimum required Compressive Strength of Individual Units 5 N/mm^2
2	Block 2	35.15	406.2	5.08	
3	Block 3	36.39	402.5	5.03	
4	Block 4	35.16	404.5	5.06	
5	Block 5	36.35	405.3	5.07	
6	Block 6	35.15	404.6	5.06	
7	Block 7	36.33	408.5	5.11	
8	Block 8	34.19	409.2	5.12	

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Job No.: CTCE/BBMP/KRIDL/W.No.05/CSR-04/329d/Cube/2017-18 19.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.05.2017	19.06.2017	8.128	369.6	16.43
2	22.05.2017	19.06.2017	8.269	378.5	16.82
3	22.05.2017	19.06.2017	8.328	382.5	17.00

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.05.2017	19.06.2017	8.229	365.6	16.25
2	22.05.2017	19.06.2017	8.328	370.3	16.46
3	22.05.2017	19.06.2017	8.415	390.5	17.36

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Job No.: CTCE/BBMP/KRIDL/W.No.05/CSR-04/329d/Cube/2017-18 20.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.05.2017	20.06.2017	8.185	382.3	16.99
2	23.05.2017	20.06.2017	8.229	398.9	17.73
3	23.05.2017	20.06.2017	8.327	405.6	18.03

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AE ward no 5

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.05.2017	20.06.2017	8.258	368.5	16.38
2	23.05.2017	20.06.2017	8.325	379.5	16.87
3	23.05.2017	20.06.2017	8.428	402.5	17.89

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
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* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2017	21.06.2017	8.105	365.9	16.26
2	24.05.2017	21.06.2017	8.206	375.6	16.69
3	24.05.2017	21.06.2017	8.353	390.2	17.34

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2017	21.06.2017	8.159	359.9	16.00
2	24.05.2017	21.06.2017	8.228	385.5	17.13
3	24.05.2017	21.06.2017	8.380	399.2	17.74

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.05/CSR-04/329d/Pre Slab/2017-18 29.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of work	:	Improvements drains and covering slabs at Agrahara Layout in Ward No.05, Jakkur, BBMP, Bangalore.
* Reference	:	AEE/BSD/BBMP/01/2017-18 Dated: 24.04.2017
* Sample ID	:	Precast slab (100mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	24.05.2017
Date of Testing	:	29.05.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.393	2533.59	1.58	0.955	30.25	15.41	16.64	17.43	21.79
2	50.00	80.00	0.399	2540.11	1.60	0.957	33.55	17.09	18.45	17.66	22.07
3	50.00	81.00	0.404	2540.19	1.62	0.959	34.25	17.44	18.84	18.07	22.58

* Information is furnished by the Customer/Representative

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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